

AIR FORCE SPECIAL OPERATIONS COMMAND

Air Commandos – Quiet Professionals

AFSOC Training Systems

Briefing to USAF APBI and NTSA

25 May 2010



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AFSOC/A5RT

Training Systems Requirements



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AFSOC Topics



- **Vision**
 - **Aircraft Simulator Force Structure**
 - **MC/AC-130 Recapitalization**
 - **Aviation Foreign Internal Defense**
 - **Battlefield Airmen Simulation Initiatives**
 - **Training Systems Support CLS**
 - **POCs and Questions**
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AFSOC Vision



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- **Accomplish as much training on training systems vs. actual assets due to LD/HD nature of force**
 - **Schoolhouse and unit training**
 - **Force multiplier**

 - **Priorities:**
 - **Initial and Mission Qualification**
 - **Currency Events/Continuation Training**
 - **Proficiency**
 - **Mission Rehearsal**
-



Roadmap Implementation



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- **Concurrency (maintain return-on-investment)**
 - **Obsolescence (simulator depot) line of funding**
 - **High Fidelity Simulators**
 - **Level D standard (WSTs)**
 - **SIMCERT program**
 - **Return-on-investment (ROI)**
 - **Goals (80% formal school events, up to 50% currency, increase proficiency hours, sim time credit for upgrades, home station refresher trng, increase bilateral trng use of sims)**
 - **Force Structure**
 - **Must grow for existing as well as new**
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U.S. AIR FORCE

AFSOC Aircraft Simulators

As of 3 May 10

Dates are Ready for Training

VTRAT

Kadena AB Mildenhall RAF

Kirtland AFB

MC-130P WST + FuT

MC-130H WST + FuT

CV-22 WST (2)+ OFT (2) + CPTT

VTRAT

HC/MC-130J WST (FY12)

HC/MC-130J WST (FY14)

HC/MC-130J FuT (FY14)

Cannon AFB

MQ-1(2)/MQ-9 (3Qtr FY10) (3)

VTRAT

MC-130W MTD

CV-22 OFT (May 10)

AC-130H CST II (Oct 10)

MC-130W WST (Nov 10)

MC-130W FuT (Nov 10)

CV-22 CPTT (FY12)

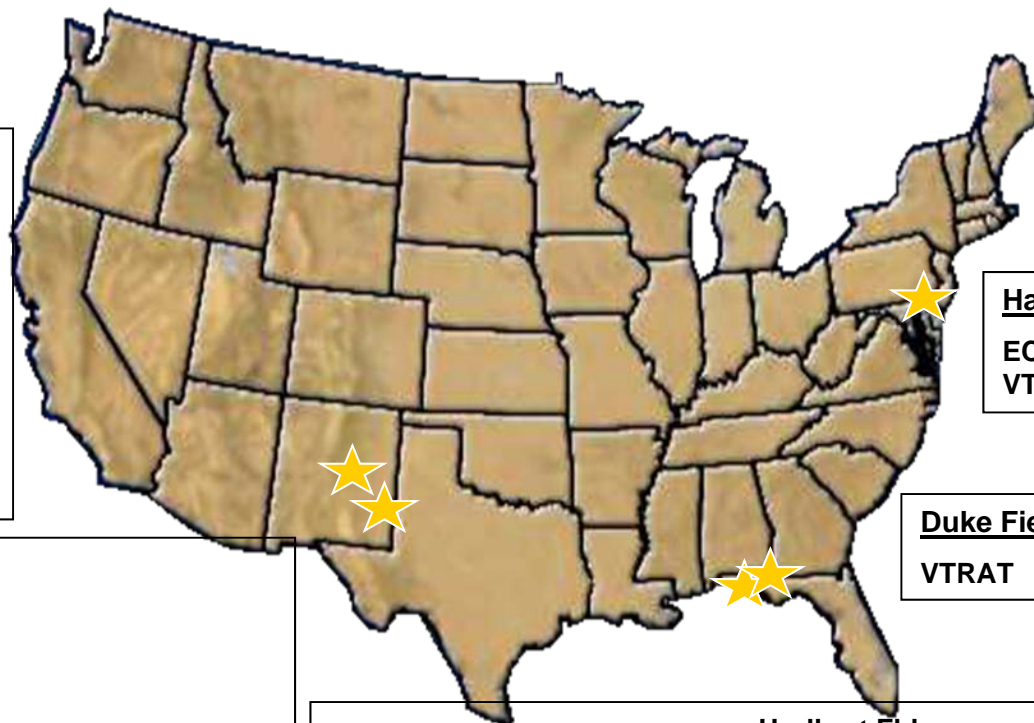
MC-130J LMPTT (FY12)

MC-130J ICMT (FY13)

MC-130J WST (FY14)

AC-130J WST #1 (FY15)

AC-130J WST #2 (TBD by TSRA)



Harrisburg PAANG

EC-130J PTT
VTRAT

Duke Field AFRC

VTRAT

Hurlburt Fld

MC-130E WST

MC-130H Avionics PTT (Mx)

AC-130U WST + BMC + Sensor PTT

AC-130U Armament Sys Trnr (Ops/Mx)

MC-130H WST

CV-22 OFT

VTRAT (2)

MC-130 FuT

U-28 MTD

C-130J CAP-T

CV-22 CPTT (FY12)

MC-130J WST (FY13)

MC-130J ICMT (FY14)

Mi-17 WST (FY14)



MC-130 and AC-130 Recapitalization



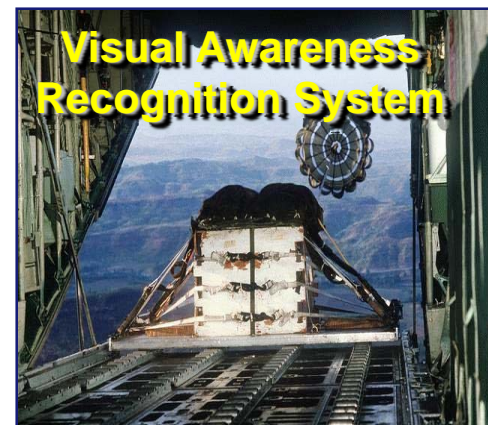
- **MC-130J (37) recapitalizes MC-130E and P legacy aircraft fleet**
 - Based on KC-130J (OFP 6.5) plus MC/HC modifications
 - Aircraft basic qualification (pilots and loadmasters) @ Little Rock AFB
 - CSO, Pilot, LM mission qualification training @ Kirtland AFB
 - **AC-130J (16) recapitalizes AC-130H**
 - Mission qualification training @ Cannon AFB
 - Continuation/unit training @ Cannon AFB
 - **No O'CONUS training devices**
 - **Training system procurement via JMATS II contract**
 - **CLS via ATARS II contract**
-



MC-130J Training Devices



**Cannon AFB
Hurlburt Field**





Aviation

Foreign Internal Defense



- QDR initiative for Mi-17 Simulator
- Funded FY12
- CPD Pending
- Hurlburt Field, FL





Special Tactics Battlefield Airmen



Combat Control (CCT)



Combat Weather



Tactical Air Control Party (TACP)



Pararescue (PJ)



Battlefield Airmen Requirements



**USAF Battlefield Airman Modernization PMD 05-001, May 2007 (FOUO)
CCT, TACP, PJ, Combat Weather Requirements**

- **Simulator Reqs**
 - TACP (JTAC)
 - CCT (JTAC + ATC)
 - C2 (ASOC/SOF C2)
 - JTC TRS Annex





CCT TACP



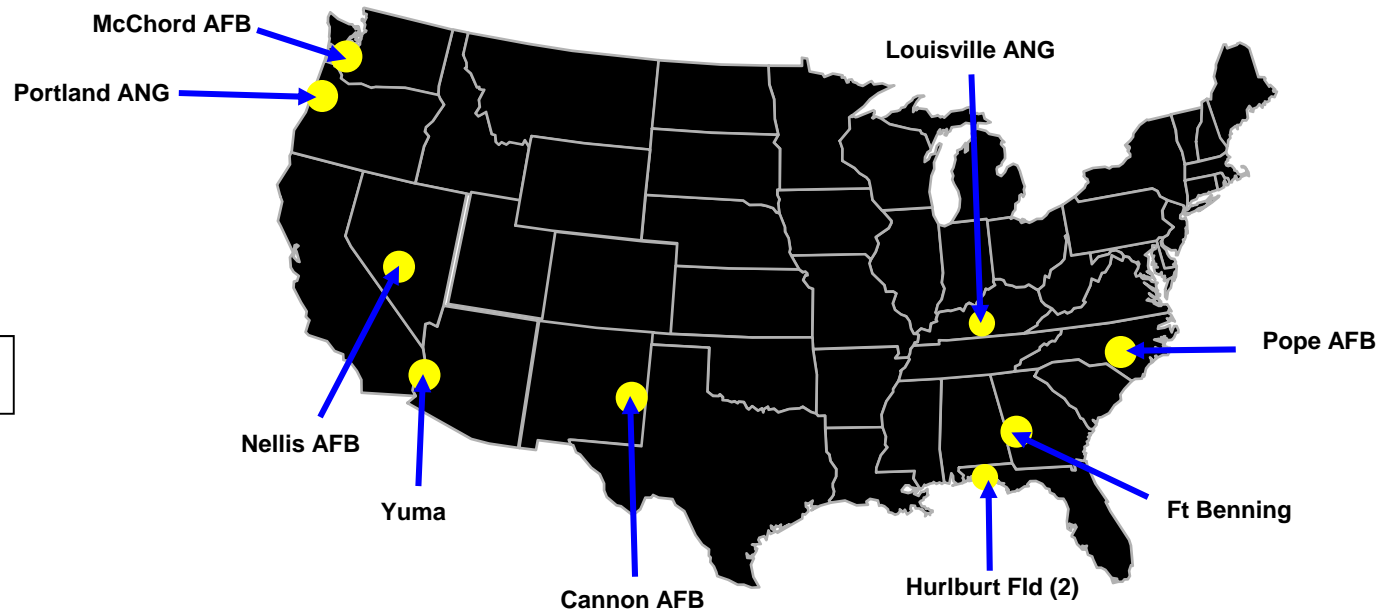
Joint Terminal Control Training and Rehearsal System (JTC TRS)

- Air Traffic Control (CCT unique)
- JTAC (CCT and TACP)
- Will be fielded at each Special Tactics Squadron (11 sites, 12 systems)
 - Fixed-site, partial domes funded
- Air Force JTC TRS CLS contract





AFSOC Funded JTC TRS





CCT at Work in Haiti



• **Combat controllers were at the Port-au-Prince International Airport within 12 hours after the Presidential request was made. For 12 days (24hrs/day) they controlled up to 250 aircraft a day, exceeding the normal capacity of the airfield by 1,400% without a single incident – all without the aid of computers or electricity. They enabled the delivery of over 4 million pounds of humanitarian relief to the people of Haiti.**

• **The Special Tactics Operators were from AFSOC's 720th Special Tactics Group. They were led by CMSgt Antonio Travis, who was recognized as one of TIME magazine's 2010 Top 100 most influential people in the world for his efforts.**



PJ Simulator Future





PJ Training Shortfalls



- **AFSOC Deficiency: Realistic training and rehearsal**
 - **DoD Directive 3612.1**
 - Alternatives to Live Tissue Training (LTT) Required
 - LTT inadequate for combat training
 - **Existing medical training inadequate**
 - Current training is difficult to accomplish and costly
 - **Existing training aids (task trainers) inadequate**
 - Unrealistic
 - Difficult to incorporate in full mission training
 - **No dedicated PJ simulator**
 - **FY10 Congressional add for PJ sim development**
 - Monitor FedBizOpps (fbo.gov)
-



PJ Simulator

Notional Requirements

(CDD in Draft)



- Virtual environment
- All PJ mission sets
- One or more players
- Available anywhere connection exists
- Continuous hardware & software improvement
- Adaptable to many career fields
- Mimics hard to simulate environment, sensory inputs, decision process
- “On-Demand”
 - Flexible trng schedule
- Enable leveraging of R&D projects increasing overall capabilities and effectiveness
- Scenarios can be changed on the fly

***Intent to add on to JTC TRS
architecture/simulators***



Training Systems Support CLS



- **Aircrew Training and Rehearsal Support (ATARS) II contract, 2007**
 - Prime: Lockheed Martin Simulation, Training & Support – Orlando
 - Maintenance, operations, instruction, courseware, DMO, engineering
 - Cannon AFB, Hurlburt Fld, Kirtland AFB, Harrisburg ANG
 - Program Office now at 677 AESG
- **MQ-1/9 CLS via Predator Mission Aircrew Training System contract**
- **JTC TRS includes CLS**





POCs Questions



AFSOC Training Systems Requirements

- Larry Allen, AFSOC/A5RT, (850) 884-5568

ATARS II:

- 677 AESG/SYCC, Capt Shane Smoot, (937) 255-3391
- AFSOC/A3TS, Scott Murphy, (850) 884-5773

MC/AC-130J:

- Jim Sprance (JMATS), 668 AECS/SYCB, (785) 255-6471
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JTC TRS:

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Battlefield Airmen Simulators

- Steve Scott, AFSOC/A5ZS, (850) 884-2275
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